

## GUIDE SPECIFICATION AND INSTALLATION INSTRUCTIONS

### PART 1 – GENERAL

#### 1. DESCRIPTION OF SYSTEM

- 1.1- This fireproofing system shall be a complete system of fireproofing materials supplied as specified by the Industrial Insulation Group.
- 1.2- This system shall be designated for application on the specific type of structural member shown on the drawing.

#### 2. QUALITY ASSURANCE

- 2.1- Supplier Qualifications: The Super Firetemp® system, as supplied by the Industrial Insulation Group, is approved for use on the project.
- 2.3- Applicator Qualifications: Applicators bidding on this work represent that they are fully apprised of Super Firetemp® products and methods of application.

#### 3. SUBMITTALS

- 3.1- Product Data: Copies of Super Firetemp® data and application instructions.
- 3.2- Samples: Samples of Super Firetemp®, Super Calstik® and other applicable materials as requested.

#### 4. PRODUCT DELIVERY, STORAGE AND HANDLING

- 4.1- Materials shall be delivered in packaged lots, clearly marked with the Industrial Insulation Group's name, brand and type of material.
- 4.2- Materials shall be stored in a clean, dry warehouse with careful handling to avoid damage.

#### 5. JOB CONDITIONS

- 5.1- Environmental Conditions: When installing Super Firetemp®, conditions must be above freezing to allow the Super Calstik® Glue to set.
- 5.2- Ventilation: When the Industrial Insulation Group Super Firetemp® is saw-cut in the field, workers must follow personal protection as indicated in the product warning label or Safety Data Sheet (SDS).
- 5.3- Substrate Protection: Outdoor structural members being fireproofed by Super Firetemp® should be protected from rust by the application of an appropriate coating.
- 5.4- Coordination: Fireproofing must be coordinated with other construction to avoid retrofits that would interfere with the integrity of the

finished fireproofing job. At the same time, the fireproofing should be applied as late as possible to minimize the possibility of incidental damage to the finished system.

#### 6. CODES

- 6.1- Install all Super Firetemp® in strict accordance with all published, applicable regulations by local, state or federal agencies that may have jurisdiction.

### PART 2 – PRODUCTS

#### 1. SUPER FIRETEMP®

- 1.1- Guide Specification: Shall be Super Firetemp®, a press-molded xonotlite calcium silicate board possessing such strength and resiliency as to be installable without damage. If intended for exterior use or where water resistance is required, Super Firetemp® must be protected with an approved system.

#### 2. TYPICAL AVERAGE PROPERTIES:

Super Firetemp®	L	M
Density, pcf (kg/m³)	18(288)	28(449)
Flexural Strength, psi (kPa)	260(1793)	550(3792)
Compressive Strength @ 10% deformation, psi (kPa)	450(3103)	900(6206)

#### 3. POSITIVE PROTECTION

- 3.1 - As compared with spray-on materials, Super Firetemp® offers "positive" protection because the thickness is fixed at the manufacturing level under rigid quality control.

#### 4. EASY APPLICATION

- 4.1- May be field-installed using ordinary tools: hammer and nails, automatic nailer, or drywall screws and power screwdriver. Screws are the preferred method of attachment.
- 4.2- May be field-cut using a circular saw equipped with a carbide-tipped blade or a saber saw equipped with a metal cutting blade. For minimum on-site effort, pre-cut in a shop. Field cuts with a circular saw should be made by using a "clamped-in-place" straightedge for the saw to follow.

5. HAZARDOUS WARNING

5.1- For the latest health and safety information for this product, please refer to the Industrial Insulation Group Safety Data Sheet (SDS), or contact the Industrial Insulation Group at (800) 525-0017.

5.2- Contains no asbestos.

**PART 3 – EXECUTION**

1. INSPECTION

- 1.1- Verify that the members to be fireproofed are as represented in the design criteria.
- 1.2- Verify that all members to be fireproofed have been properly coated if such coating is called for in the design specs.

2. RIB INSTALLATION (ribs are optional for boards 1" [25 mm] thick or greater).

- 2.1- Cut and fit ribs (minimum 2" [51 mm] thick) for all board sections that terminate in unsupported web areas of the structural members.
- 2.2 - Attach all ribs by "buttering" the edges with Super Calstik® adhesive.

3. BOARD INSTALLATION

3.1- Use full 8' (2.44 m) sections up the columns, but generally 4' (1.22 m) sections can be cut with less total waste.

3.2 - Cut 4' (1.22 m) boards for the flange sides of the beam. The width of the boards is equal to the flange width plus 1/4" (6 mm).

3.3- Cut 4' (1.22 m) boards for the web sides of the beam. The width of the boards is equal to the beam width plus two thicknesses of the board plus 1/4" (6 mm).

3.4- Start column at the bottom by installing ribs on both web sides at the bottom and at 4' (1.22 m) intervals up the column, if required.

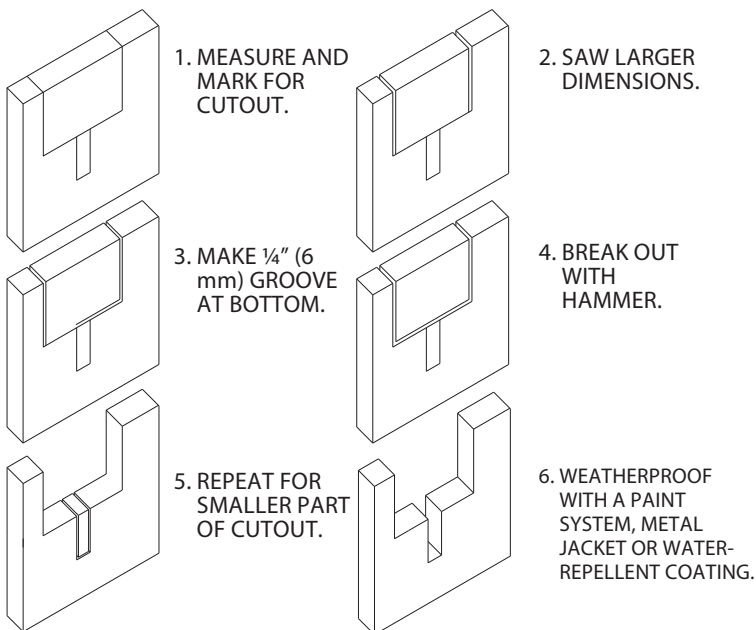
3.5- Start with a 2' (0.61 m) section for the flange faces.

3.6- Apply full 4' (1.22 m) boards to web sides starting at the bottom and working up. Screws (or nails) should be installed at 8" (203 mm) intervals with one or two at the rib depending on the width of the section. The length of the screws (or nails) should be twice the thickness of the board. All fasteners should be recessed approximately 1/16" (2 mm) to allow for spackling.

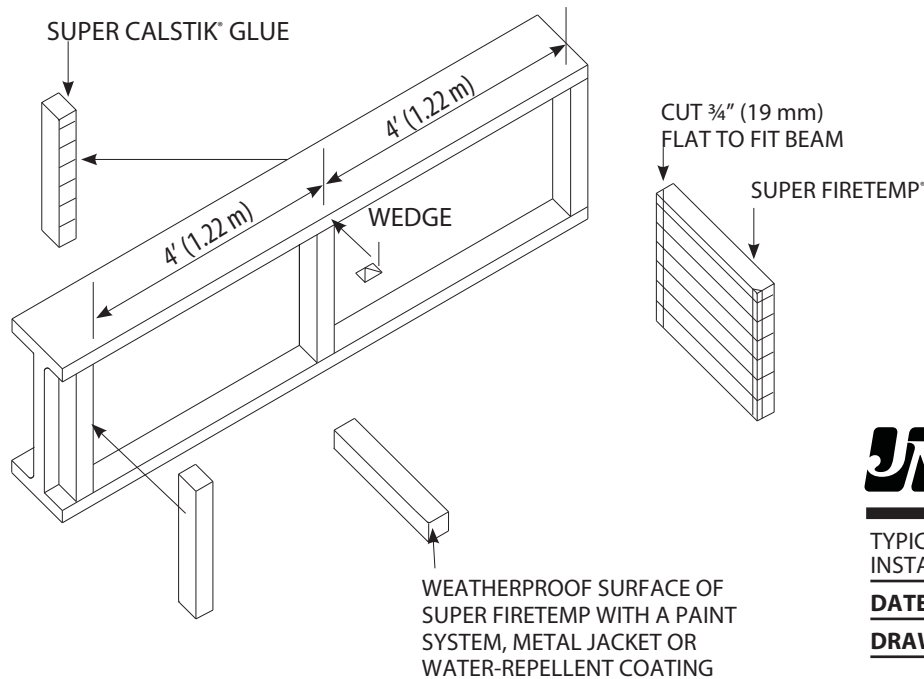
3.7- On indoor installations, use Super Firetemp® M for all exposed areas.

3.8- Super Firetemp® may be used indoors in protected areas. For outdoor applications, use with aluminum or stainless steel weatherproof covering or a recommended paint system.

3.9 - If Super Firetemp® is installed in outdoor conditions or where water resistance is required, Super Firetemp® must be protected with an approved system.



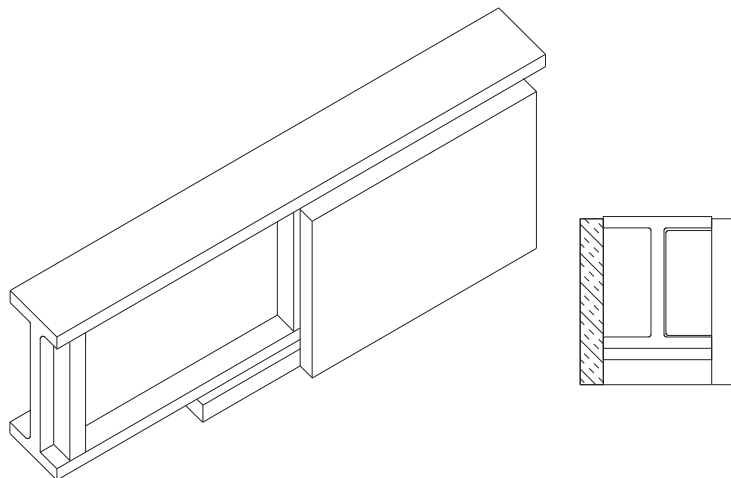
# Super Firetemp® Structural Steel Installation Technical Information



TYPICAL INSTALLATION  
INSTALLING RIBS ON BEAMS

DATE 4/98

DRAWING NO. SS-2



## NOTES:

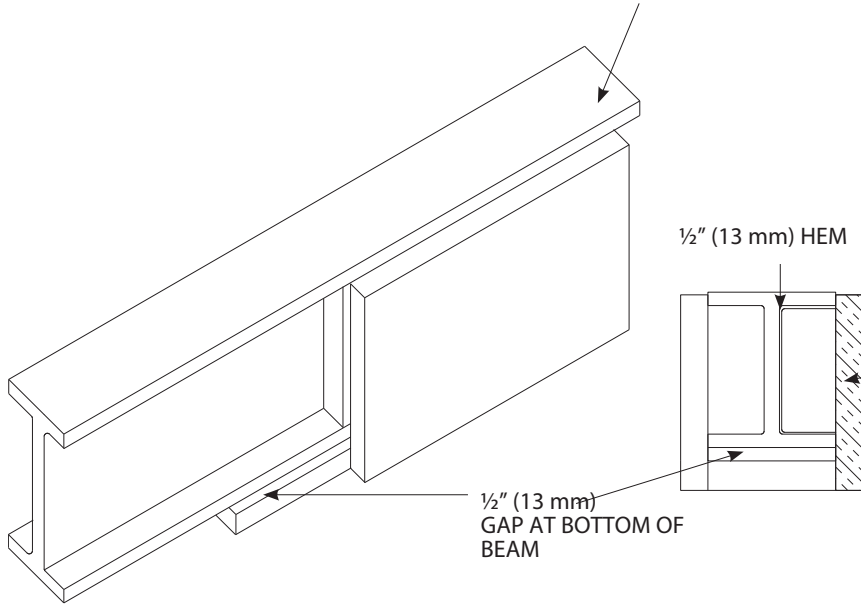
AN ALTERNATE TO CAULKING THE JOINT BETWEEN SUPER FIRETEMP AND THE BEAM IS TO USE A LIGHTWEIGHT METAL COVER (0.016" [0.41 mm] ALUMINUM OR GALVANIZED IRON SHEET METAL). THE COVER MAY BE SCREWED TO THE SUPER FIRETEMP ON 12" (305mm) CENTERS OR BANDED WITH 3/8" (10 mm) BANDS OF THE SAME MATERIAL ON 24" (610mm) CENTERS. JOINTS BETWEEN SECTIONS OF SHEET METAL SHOULD BE CAULKED WITH A HIGH-QUALITY SILICONE CAULK.



TYPICAL INSTALLATION  
SUPER FIRETEMP® TO PROTECT A BEAM ON  
THREE SIDES

DATE: 4/98

DRAWING NO. SS-3



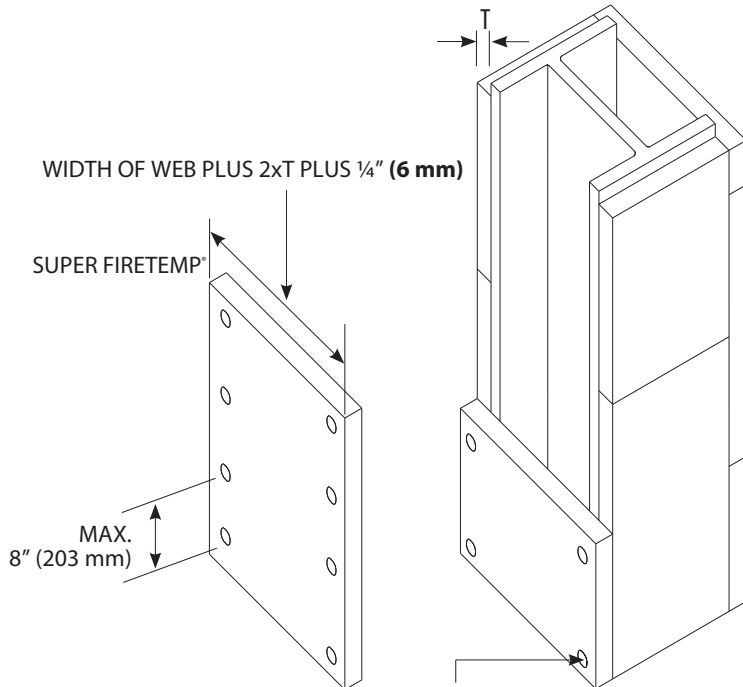
.016" (0.41 mm) OR .02" (0.5 mm) ALUMINUM JACKETING WITH 1/2" (13 mm) STAINLESS STEEL BANDING 12" (305 mm) ON CENTERS AROUND BEAM

**JM** Johns Manville  
Industrial Insulation Group

TYPICAL INSTALLATION  
BEAM PROTECTION

DATE 4/98

DRAWING NO. SS-4



NOTES:

1. NAIL OR SCREW ON 8" (203 mm) (MAX.) CENTERS ALONG SIDES OF BOARDS.
2. COAT ALL NEWLY CUT SURFACES.
3. RECESS ALL NAIL HEADS 1/16" - 1/8" (2mm-3mm) TO ALLOW FOR PUTTYING OVER.
4. APPLY SUPER CALSTIK® TO ALL BUTT JOINTS.

**JM** Johns Manville  
Industrial Insulation Group

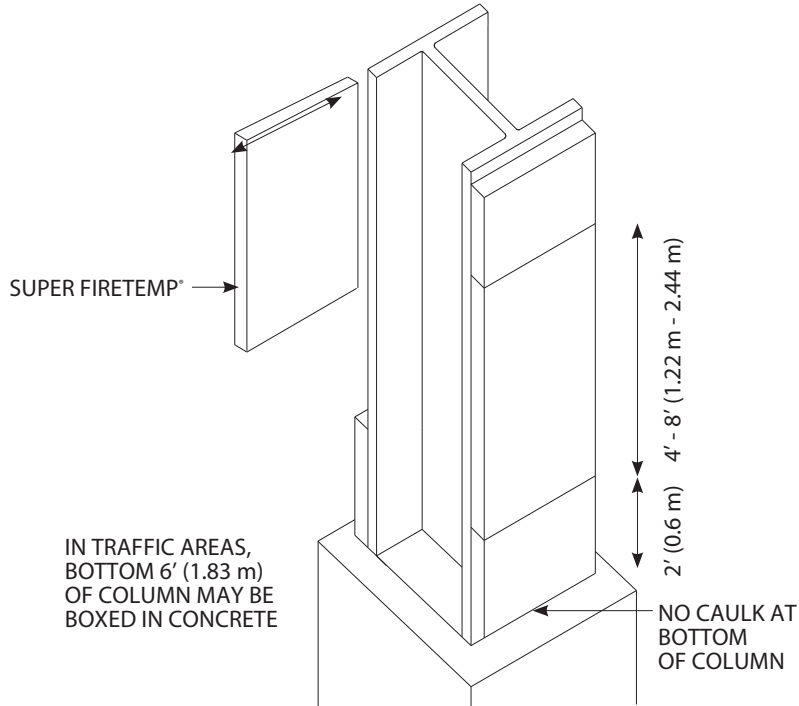
TYPICAL INSTALLATION  
OF WEB BOARDS

DATE 4/98

DRAWING NO. SS-5

STAINLESS OR GALVANIZED BOX OR CASING NAILS OR DRYWALL SCREWS TWICE AS LONG AS BOARD THICKNESS

# Super Firetemp® Structural Steel Installation Technical Information



**NOTES:**

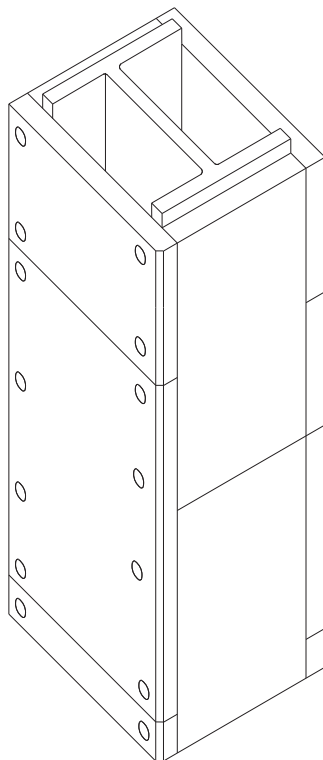
1. STARTING WITH A 2' (0.61 m) SECTION AT THE BOTTOM OF THE COLUMN, WORK UP THE SIDES WITH SUCCESSIVE SECTIONS.



TYPICAL INSTALLATION  
OF FLANGE BOARDS

DATE 4/98

DRAWING NO. SS-6



**NOTES:**

1. CHAMFER ALL SHARP EDGES TO A FLAT OF  $\frac{1}{8}$ " -  $\frac{1}{4}$ " (3 mm - 6 mm).
2. FILL ALL NAIL HOLES AND JOINTS WITH AN APPROVED CAULK.
3. LIGHTLY SAND FINISHED JOB TO REMOVE ANY ROUGHNESS LEFT BY CAULKING OPERATION.
4. APPLY WEATHER-PROTECTION SYSTEM TO ALL SURFACES TO PREVENT DAMAGE.



TYPICAL INSTALLATION  
FINISHING BOARD SECTIONS

DATE 4/98

DRAWING NO. SS-7

Industrial Insulation Group, LLC manufactures MinWool-1200® mineral fiber pipe, block and a variety of other insulations; Thermo-12® Gold Calcium Silicate pipe and block insulation; Microporous Blanket Insulation; Super Firetemp® fireproofing board; SprouleWR-1200® Perlite pipe and block insulation; high-temperature adhesives, and insulating finishing cement. The physical and chemical properties presented herein represent typical, average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Numerical flame spread and smoke developed ratings are not intended to reflect hazards presented by these or any other materials under actual fire conditions. Check with the Customer Service Office to assure current information. All Industrial Insulation Group products are sold subject to the Johns Manville Limited Warranty and Limitation of Remedy. For a copy of the Johns Manville Limited Warranty and Limitation of Remedy, email [info.industrial@jm.com](mailto:info.industrial@jm.com).

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